

AMENDMENT # 5DEAD CREEK/SUGGET  
LPC# 1600200005

## MEMORANDUM

E&amp;E

DATE: SEPTEMBER 24, 1987

TO: Contract Administrator

FROM: BILL CHILD, DIVISION MANAGER, LPC <sup>BC</sup> <sub>ENR</sub>

SUBJECT: Contract Information For (New Contract) (Amendment to Existing Contract)

1. Name of Contractor ECOLOGY & ENVIRONMENT, INC.
2. Contractor's Mailing Address:
  - a. Street and City 195 SUGG ROAD P.O. BOX D
  - b. State and Zip BUFFALO, NEW YORK 14225
3. FEIN/SSN (if available) -
4. Funding Source (Circle applicable alphabetic character, i.e., a, b) and complete blanks.
  - a. State-General Revenue 

AMENDMENT TO EXISTING CONTRACT

    1. Account Code - 0 0 1
    2. Section or Budget Code -
  - b. Federal-U.S. EPA
    1. Grant No.
    2. Authorized by Section No. of P.L.
    3. Title of Law
    4. Account Code
    5. Section or Budget Code
5. Agency Contract Manager ----- BILL RADLINSKI
6. Execution Date (Proposed) 09/04/87
7. Termination Date 02/15/88 <\$123,738.00> DECREASE \$1,196,186 TOTAL
8. Amount (Total) \$~~21,761.00 INCREASE~~ \$1,391,685.00 TOTAL
9. Work to be Performed (Circle applicable alphabetic character)
  - a. Existing contract's Work to be Performed clause is adequate.
  - b. Copy of existing contract's Work to be Performed clause is attached with desired modifications.
  - c. New Work to be Performed clause is attached.
10. Contract Period (Circle applicable alphabetic character)
  - a. Copy of existing contract's Contract Period clause is attached with desired modifications.
  - b. New Contract Period clause is attached.
11. Costs (Circle applicable alphabetic character)
  - a. Existing contract's Costs clause is adequate.
  - b. Copy of existing contract's Costs clause is attached with desired modifications.
12. Other Applicable Clauses:
13. Equivalent Position Title EXEC IV
14. Section, Unit DLPC, PDU
15. Telephone Number 782-9898

DATE:

NOVEMBER 5, 1987

TO:

Brian Krasner, Bureau of the Budget  
601 Stratton Office Building, Springfield, Illinois

FROM:

JOHN STELLER/DLAC

SUBJECT:

Contract amendment #5 to Ecology and  
Environment Dead Creek/Sauget Contract

- STATEMENT OF THE PROBLEM TO BE SOLVED: The scope of work changes added by this amendment include the cancellation of the Feasibility Study (decrease of \$145,499.00), the disposal of drill cuttings and water accumulated during the Remedial Investigation, the resampling of 4 wells because the originals were broken, and the performance of Hydraulic conductivity tests of Aquifer materials at 10 different wells, Increase of \$21,761.19
- ~~CONSULTANT USE JUSTIFICATION:~~

- BENEFITS EXPECTED FROM THE CONSULTING EFFORT, I.E., TANGIBLE DOLLAR SAVINGS, OR INTANGIBLE BENEFITS FULLY EXPLAINED:

- CONTRACTORS SUBMITTING PROPOSALS:

- CONTRACTOR SELECTED:

Ecology and Environment, Inc.

- ANTICIPATED COST:

<\$128,738.00> Decrease

- AGENCY CONTACT:

SHEILA FITE



MEMORANDUM

DATE: 10/15/87  
TO: John Steller  
FROM: Sheila Fite  
SUBJECT: Contract Transmittal

  X  

Please have the Division Manager sign both copies of the signature page of the attached contract or contract amendment and forward along with the Contract Transmittal sheet to the contractor. When the contract or contract amendment is mailed to the contractor, please call Marilyn Garst at 2-9894 to inform her of the date mailed.

       Attached please find your copy of a fully executed contract or contract amendment. Another copy has been forwarded to the contractor.

SF:mg

RECEIVED  
OCT 15 1987  
IEPA/DLPC



217/782-9894

Ecology and Environment, Inc.

195 Sugg Road

Post Office Box D

Buffalo, New York 14225

CONTRACT (OR AMENDMENT) TRANSMITTAL SHEET

The attached contract (or amendment) is being sent to you for signature and processing:

1. Leave the date of execution blank.
2. If necessary, complete the Federal Employment Information Number (FEIN) or Social Security Number block. No contract can be executed without this information.
3. Sign both copies of the signature page of the attached contract (or amendment) and return immediately to Sheila Fite, Contract Administrator, Illinois Environmental Protection Agency, 2200 Churchill Road, P. O. Box 19276, Springfield, Illinois 62794-9276.

An executed copy will be returned to you for your files after we have signed and processed the contract.

SF:mg

Attachment

STATE OF ILLINOIS  
ENVIRONMENTAL PROTECTION AGENCY  
AMENDMENT NUMBER 5 TO  
PROFESSIONAL SERVICES AGREEMENT

The Illinois Environmental Protection Agency and Ecology & Environment, Inc., whose address is 195 Sugg Road, P.O. Box D, Buffalo, New York 14225, hereby agree to the amendment of Professional Services Agreement Number LCU-32, dated September 9, 1985, Amendment 1 dated January 2, 1986, Amendment 2 dated March 1, 1986, Amendment 3 dated August 31, 1986 and Amendment 4 dated August 24, 1986, executed as follows:

1. Paragraph D(1) (See Amendment #4) of the Agreement is hereby eliminated and struck in its entirety and the following Paragraph D(1) is inserted in its place:
  1. The Contractor shall furnish the necessary personnel, materials, services, facilities and otherwise do all things necessary for or incident to the performance of the work at the Dead Creek project, Sauget and Cahokia, Illinois (LPC #1600200005) (hereinafter designated as "Site") as set forth in:
    - a. The Contractor's Proposal dated May 20, 1985;
    - b. The Agency's Request for Proposal dated April 3, 1985;
    - c. The Contractor's Revised Rate Schedule dated November 26, 1985;
    - d. The Contractor's Letter dated February 18, 1986; and
    - e. The Agency's letter authorizing a re-evaluation of the present Statement of Work, dated July 11, 1986;
    - f. The Contractor's Proposal to Implement a Revised Scope of Work, dated August 4, 1986 as amended by the Contractor's revised cost estimate letter, dated August 26, 1986;
    - g. The Contractor's letter, dated September 15, 1986;
    - h. The Agency's letter, dated September 16, 1986;
    - i. The Contractor's letter of cost comparisons, dated August 20, 1986;
    - j. The Contractor's letter, dated November 25, 1986; and
    - k. The Contractor's letter and cost proposal as amended dated March 11, 1987, as requested by the Agency's letter dated January 8, 1987 and as approved by the Agency's letter dated July 2, 1987;

1. The Contractor's letter and cost proposal as amended dated April 8, 1987, as approved by the Agency's letter dated April 28, 1987;
- m. The Contractor's letters dated May 8, 1987 and September 11, 1987, as agreed to by the Agency's letter dated May 21, 1987; ~~and~~
- n. ~~This contract.~~ *The Agency's letter dated October 3*  
*O. This contract*
2. Paragraph D(2) (See Amendment #4) of the Agreement is hereby eliminated and struck in its entirety and the following Paragraph D(2) is inserted in its place:
  2. The documents cited in Paragraph D(1)(a) through D(1)(~~g~~)<sup>n</sup> are incorporated by reference into this contract and made a part hereof. If there is a conflict between the terms and provisions of this contract and the documents cited in Paragraph D(1)(a) through D(1)(~~g~~)<sup>n</sup>, the terms and provisions of this contract shall control. <sup>n</sup>
3. Paragraph E(1) (See Amendment #4) of the Agreement is hereby eliminated and struck in its entirety and the following Paragraph E(1) is inserted in its place:
  1. This is a cost plus fixed fee contract with a ceiling price for all work performed under this contract of ~~\$1,341,685.00.~~ <sup>\$1,196,186.01</sup>
4. Paragraph E(2)(a) and Paragraph E(2)(b) (See Amendment #4) of the Agreement are hereby eliminated and struck in their entirety and the following Paragraph E(2)(a) and Paragraph E(2)(b) are inserted in their places:
  2. a. The contractor shall perform all work under this contract at the rates and in accordance with the Schedule of Task Completion specified in the Contractor's proposal dated May 20, 1985, as amended by those documents listed in Paragraph D(1)(c) through D(1)(~~g~~)<sup>n</sup> which were incorporated into this contract by Paragraph D(2).
  - b. The Contractor shall be reimbursed at the rates specified in the Contractor's Proposal dated May 20, 1985 as amended by those documents listed in Paragraph D(1)(b) through <sup>n</sup>~~D(1)(~~g~~)~~ which were incorporated into this contract by Paragraph D(2).
5. Paragraph E(3)(a) and Paragraph E(3)(b) (See Amendment #4) of the agreement are hereby eliminated and struck in their entirety and the following Paragraph E(3)(a) and Paragraph E(3)(b) are inserted in their places:

*\$1,124,549.00*

3. a. The cost limit for the satisfactory performance of all work under this contract is ~~\$1,253,934.00~~, this amount is subject to change by formal contract amendment only.

b. The fixed fee limit for the satisfactory performance of all work under this contract is ~~\$87,751.00~~, this amount is subject to change only by a material change in the scope of work and by formal contract amendment.

*\$71,637.00*

6. All other agreements shall remain in force.

IN WITNESS WHEREOF, the parties hereto have executed this amendment this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_, and agreed that it shall become a part of the Professional Services Agreement Number LCU-32, as evidenced by the signatures of their duly authorized representatives as affixed below.

Ecology & Environment, Inc.

Illinois Environmental Protection Agency

By \_\_\_\_\_

By \_\_\_\_\_  
Richard J. Carlson, Director

INTRA-AGENCY CONCURRENCE:

Division Manager  
*[Signature]*  
Fiscal Officer

SF:sls/sp/3897g,10-12

3. a. The cost limit for the satisfactory performance of all work under this contract is \$1,253,934.00; this amount is subject to change by formal contract amendment only.
- b. The fixed fee limit for the satisfactory performance of all work under this contract is \$87,751.00; this amount is subject to change only by a material change in the scope of work and by formal contract amendment.

6. All other agreements shall remain in force.

IN WITNESS WHEREOF, the parties hereto have executed this amendment this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_, and agreed that it shall become a part of the Professional Services Agreement Number LCU-32, as evidenced by the signatures of their duly authorized representatives as affixed below.

Ecology & Environment, Inc.

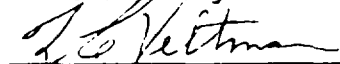
Illinois Environmental Protection Agency

By \_\_\_\_\_

By \_\_\_\_\_  
Richard J. Carlson, Director

INTRA-AGENCY CONCURRENCE:

Division Manager



Fiscal Officer

SF:sls/sp/3897g,10-12





AMENDMENT # 5

DEAD CREEK/SAUGET  
LPC # 1600200005

MEMORANDUM

E&E

DATE: SEPTEMBER 24, 1987  
TO: Contract Administrator  
FROM: BILL CHILD, DIVISION MANAGER, LPC  
SUBJECT: Contract Information For (New Contract) (Amendment to Existing Contract)

1. Name of Contractor ECOLOGY & ENVIRONMENT, INC.
2. Contractor's Mailing Address:
  - a. Street and City 195 SUGG ROAD P.O. BOX D
  - b. State and Zip BUFFALO, NEW YORK 14225
3. FEIN/SSN (if available) -
4. Funding Source (Circle applicable alphabetic character, i.e., a, b) and complete blanks.
  - a. State-General Revenue 

AMENDMENT TO EXISTING CONTRACT

    1. Account Code - 001
    2. Section or Budget Code -
  - b. Federal-U.S. EPA
    1. Grant No.
    2. Authorized by Section No. of P.L.
    3. Title of Law
    4. Account Code
    5. Section or Budget Code
5. Agency Contract Manager BILL RADLINSKI
6. Execution Date (Proposed) 02/04/87
7. Termination Date 02/15/88
8. Amount (Total) \$ 21,761.00 INCREASE \$1,341,685.00 TOTAL
9. Work to be Performed (Circle applicable alphabetic character)
  - a. Existing contract's Work to be Performed clause is adequate.
  - b. Copy of existing contract's Work to be Performed clause is attached with desired modifications.
  - c. New Work to be Performed clause is attached.
10. Contract Period (Circle applicable alphabetic character)
  - a. Copy of existing contract's Contract Period clause is attached with desired modifications.
  - b. New Contract Period clause is attached.
11. Costs (Circle applicable alphabetic character)
  - a. Existing contract's Costs clause is adequate.
  - b. Copy of existing contract's Costs clause is attached with desired modifications.
12. Other Applicable Clauses:
13. Equivalent Position Title EXEC IV
14. Section, Unit DLPC, PDU
15. Telephone Number 782-9898

DATE: **SEPTEMBER 25, 1987**

TO: Brian Krasner, Bureau of the Budget  
601 Stratton Office Building, Springfield, Illinois

FROM: **John Steller**

SUBJECT: **Contract Amendment - Dead Creek Sites**

- . STATEMENT OF THE PROBLEM TO BE SOLVED: **THE SCOPE OF WORK CHANGE: ADDED BY THIS AMENDMENT INVOLVE THE DISPOSAL OF DRILL CUTTINGS AND WATER ACCUMULATED DURING THE REMEDIAL INVESTIGATION, THE RESAMPLING OF 4 WELLS BECAUSE THE ORIGINALS WERE BROKEN, AND THE PERFORMANCE OF HYDRAULIC CONDUCTIVITY TESTS OF AQUIFER MATERIALS AT 10 DIFFERENT WELLS.**
- . CONSULTANT USE JUSTIFICATION:

- . BENEFITS EXPECTED FROM THE CONSULTING EFFORT, I.E., TANGIBLE DOLLAR SAVINGS, OR INTANGIBLE BENEFITS FULLY EXPLAINED:

- . CONTRACTORS SUBMITTING PROPOSALS:

- . CONTRACTOR SELECTED:

**ECOLOGY & ENVIRONMENT, INC.**

- . ANTICIPATED COST:

**\$21,761.19 INCREASE**

- . AGENCY CONTACT:

**SHEILA FITE**



DATE: September 25, 1987

TO: Division File and Jeff Larson

FROM: John Steller

SUBJECT: Dead Creek Site/St. Clair County  
LPC #1630200005  
Superfund/Fiscal  
Cost Analysis - Ecology & Environment

Pursuant to 40 CFR 33.290(a) and 44 Ill. Adm. Code 550.311, I performed a cost analysis on increases to the contractually agreed to cost plus fixed fee for the Dead Creek Sites (Sauget) project resulting from Agency approved scope of work changes as set forth in the Contractor's (Ecology & Environment, Inc.) letter dated March 11, 1987 as approved and clarified by the Agency's letters dated January 8, 1987 and July 2, 1987 and the Contractor's letter dated April 8, 1987 as approved by the Agency's letter dated April 28, 1987 and the Contractor's letters dated May 8, 1987 and September 11, 1987 as approved by the Agency's letter dated May 21, 1987. In addition, I discussed the scope of work changes with the Project Manager, Jeff Larson, to ensure that additional work was necessary and authorized and that the Contractor's charges were reasonable in his opinion. It was his opinion that the work was necessary and that the costs were reasonable.

The analysis disclosed the Contractor had used the provisional FY 87 fringe (25%), overhead (65%), and S, G, & A (28%) rates instead of E. & E.'s actual FY 87 rates of fringe (.25806), overhead (.5035), and S, G, & A (.3252). This incorrect usage of rates resulted in a cost undercharge of \$322.26. In addition, the Contractor in my opinion, misapplied fee percentages. The Contractor applied a rate of 13% against labor related costs and 5% against non-labor related costs. The Contractor should have used 17% against labor, 12% against overhead, and 6% against Other Direct Cost charges. This inappropriate application of fee percentages resulted in a fee undercharge by the Contractor of \$271.13. I adjusted both the cost and fee to reflect the true calculations.

I also compared the labor rates used by the Contractor with the Contractor's contractually approved rate sheets for FY 87 to ascertain if they were correct. All rates fell within the authorized cost plus fixed fee rates.

In my opinion, the costs and fees charged by the Contractor for the scope of work changes set forth in the first paragraph above are authorized, reasonable and allowable.

TRK	ACTIVITY	LABOR HOURS	LABOR CATEGORY	LABOR RATE PER HOUR	RATE MINIMUM	2002-2003 LABOR COST	(.11) FEE	(.3506) FRINGE BENEFIT COST	(.5038) TRAVEL COST	(.3055) 55% FEE COST	(.12) FEE	O.D.C.	(.06) FEE	TOTAL COST	TOTAL FEE	TOTAL AMOUNT
	Disposal of old water	123.38	SENIOR		YES	15,348.74	2,055.06	3,180.35	7,704.41	1,578.18	321.34	255.40	161.50	6,439.22	1,623.34	8,062.56
	Water lines - 1447	78.64	SENIOR		YES	11,844.16	1,563.26	2,023.55	4,974.41	1,078.18	142.40	115.40	61.50	5,999.91	1,499.91	7,499.82
	Drillings															
	SUBTOTALS															
	Hydraulic	0.0	SENIOR		YES											
	ADJUSTMENT OF 1447		ASSISTANT		YES											
	TESTING (TRUCK)															
	SUBTOTALS															
	Removal of old water	154.16	SENIOR		YES	22,561.40	2,951.19	4,021.91	9,994.88	2,334.40	447.15	2110.00	1,261.40	73,441.27	18,226.27	91,667.54
	Drillings															
	SUBTOTALS															
	TOTALS															
	35024	601.04	924.07	261.72	439.34	910.53	8,795.00	2,781.00	19,458.00	1,779.00	2,721.00					

REMARKS: CONTRACTOR USED OLD FRINGE OVERHEAD AND SCHED RATES WHICH RESULTED IN A COST UNDERCHARGE OF \$22.00. IN ADDITION, THE CONTRACTOR APPLIED INCORRECT FEE PERCENTAGES WHICH RESULTED IN A FEE UNDERCHARGE OF \$771.13.



DATE: August 24, 1987  
TO: John Steller  
FROM: Jeff Larson, L.A.  
SUBJECT: Justification for Amendment

L1630200005 - St. Clair Co.  
Sauget Sites, Sauget  
Superfund - Fiscal

I am notifying you of an increase in cost to the Remedial Investigation phase of the above referenced project. Alternations in the S.O.W. and L.O.E. as approved by the project manager are necessary to insure quality. The generated data has resulted in the cost increase.

An amendment is necessary to allow payment to the consultant firm of Ecology & Environment for the aforementioned work. Support information detailing costs are included in the Fiscal File and will be identified in the amendment. Please initiate action on this procedure as soon as possible.

JL:kh/1-1

# Amendment #5

9/25/87

ECOLOGY and ENVIRONMENT, INC.  
195 SUGG ROAD  
Post Office Box D  
BUFFALO, NEW YORK 14225

RE: Dead Creek Project, Sauget and  
Cahokia, Illinois (LPC #1600200005).

1. Paragraph D(1) (See Amendment #  
of the Agreement is hereby  
eliminated and struck in its  
entirety and the following  
Paragraph D(1) is inserted in  
its place:

1. The Contractor shall furnish the necessary personnel, materials, services, facilities and otherwise do all things necessary for or incident to the performance of the work at the Dead Creek Project, Sauget and Cahokia, Illinois (LPC #1600200005) (hereinafter designated as "Site") as set forth in:
  - a. The Contractor's Proposal dated May 20, 1985;
  - b. The Agency's Request for Proposal dated April 3, 1985;
  - c. The Contractor's Revised Rate Schedule dated November 26, 1985;
  - d. The Contractor's Letter dated February 18, 1986; and
  - e. The Agency's letter authorizing a re-evaluation of the present Statement of Work, dated July 11, 1986;
  - f. The Contractor's Proposal to Implement a Revised Scope of Work, dated August 4, 1986 as amended by the Contractor's revised cost estimate letter, dated August 26, 1986;
  - g. The Contractor's letter, dated September 15, 1986;
  - h. The Agency's letter, dated September 16, 1986;
  - i. The Contractor's letter of cost comparisons, dated August 20, 1986;
  - j. The Contractor's letter, dated November 25, 1986; and

2. Paragraph D(2) (See Amendment #4) of the Agreement is being eliminated and placed in the following paragraph D(2) is inserted in its place:

n. The contract.

m. The Contractor's letter dated May 8, 1987 and September 11, 1987 as agreed by the Agency's letter dated May 21, 1987; and

l. The Contractor's letter and cost proposal as amended dated April 8, 1987 as approved by the Agency's letter dated April 28, 1987;

k. The Contractor's letter and cost proposal as amended as requested by the Agency's letter dated January 8, 1987 and as approved by the Agency's letter dated July 5, 1987;

2. The documents cited in Paragraph D(1)(a) through D(1)(d) <sup>(m)</sup> are incorporated by reference into this contract and made a part hereof. If there is a conflict between the terms and provisions of this contract and the documents cited in Paragraph D(1)(a) through D(1)(d), the terms and provisions of this contract shall control. <sup>(m)</sup>

3. Paragraph E(1) (See Amendment of the Agreement is hereby eliminated, and struck in its entirety and the following Paragraph E(1) is inserted in its place:

1. This is a cost plus fixed fee contract with a ceiling price for all work performed under this contract of ~~\$1,319,924.00.~~

\$1,341,685.00.

4. Paragraph E(2)(a) and Paragraph E(2)(b) (See Amendment #4) of the Agreement are hereby eliminated, and struck in their entirety and the following Paragraph E(2)(a) and Paragraph E(2)(b) are inserted in their places:

2. a. The contractor shall perform all work under this contract at the rates and in accordance with the Schedule of Task Completion specified in the Contractor's proposal dated May 20, 1985, as amended by those documents listed in Paragraph D(1)(c) through D(1)(d) which were incorporated into this contract by Paragraph D(2). <sup>(m)</sup>
- b. The Contractor shall be reimbursed at the rates specified in the Contractor's Proposal dated May 20, 1985 as amended by those documents listed in Paragraph D(1)(b) through D(1)(d) which were incorporated into this contract by Paragraph D(2). <sup>(m)</sup>



5. Paragraph E(3)(a) and Paragraph E(3)(b) (See Amendment #4) of the agreement are hereby eliminated and struck in their entirety and the following Paragraph E(3)(a) and Paragraph E(3)(b) are inserted in their places:

3. a. <sup>SATISFACTORY</sup> The cost limit for the performance of all work under this contract is ~~\$1,233,070.00~~, this amount is subject to change by formal contract amendment only. ~~\$1,233,070.00~~ **\$1,153,938.00**
- b. <sup>SATISFACTORY</sup> The fixed fee limit for the performance of all work under this contract is ~~\$86,951.00~~, this amount is subject to change only by a material change in the scope of work and by formal contract amendment. ~~\$86,951.00~~ **\$87,751.00**

6. All other agreements shall remain in force.

L1630200005 -- St. Clair County  
 Sauget -- Sauget Sites  
 Superfund -- Fiscal

SAUGET-SAUGET SITES SCHEDULE UPDATE

Federal FY87 Quarter 4  
 State FY88 Quarter 1

<u>Remedial Investigation</u>		<u>Proposed Schedule</u>	<u>Actual Schedule</u>	<u>Final Approval</u>
<u>Task No.</u>	<u>Description</u>			
I TASK 1	MEETINGS			
	A. Initial	12/20/85	09/25/85	
	B. Secondary	03/17/86	03/25/86	
II TASK 2	WORK PLAN			
	A. Investigative Support	02/17/86	08/25/86	08/25/86
	B. Definition of Objectives & SOW	05/16/86	02/17/86	
	C. Site Sampling Plan (SSP)	05/16/86	05/16/86	05/16/86
	1. Draft			
	a. submittal		02/17/86	
	b. review complete			
	2. Final	05/16/86	05/16/86	05/16/86
	a. submittal			
	b. review complete			
	D. Health & Safety Plan (HSP)			
	1. Draft			
	a. submittal	02/17/86	02/17/86	
	b. review complete			
	2. Final			
	a. submittal	05/16/86	05/16/86	
	b. review complete			05/16/86
	E. Quality Assurance Project Plan (QAPP)			
	1. Draft			
	a. submittal	02/17/86	02/17/86	
	b. review complete			
	2. Final			
	a. submittal	05/17/86	05/17/86	
	b. review complete			05/17/86
	3. Air Monitoring Supplemental QAPP			
	a. submittal draft	08/23/87	04/23/87	
	b. review complete	04/23/87	05/29/87	
	c. final complete	05/23/87	05/29/87	05/29/87
	F. Community Relations Plan (CRP)			
	1. Draft			
	a. submittal	02/17/86	02/17/86	
	b. review complete			

<u>Remedial Investigation</u>		Proposed	Actual	Final
Task No.	Description	Schedule	Schedule	Approval
	2. Final			
	a. submittal	05/17/86	05/17/86	
	b. review complete			05/17/86
	G. Permitting Requirements Plan			
	1. Draft			
	a. submittal			
	b. review complete			
	2. Final			
	a. submittal			
	b. review complete			
III TASK 3	ASSOCIATED SUPPORT	01/24/86	03/25/86	03/25/86
IV TASK 4	ADDITIONAL DATA GATHERING- EXISTING DATA REVIEW & EVALUATION	01/24/86	02/22/86	02/22/86
V TASK 5	DESCRIPTION OF CURRENT SITUATION	03/14/86	07/17/86	07/17/86
VI TASK 6	INTERIM PRELIMINARY REPORT	10/15/86	10/13/86	10/15/86

PRIMARY REMEDIAL INVESTIGATION TASKS

VII TASK 7	SITE INVESTIGATION			
(Suspended	TASK 20 Addition Req	05/27/88		
Re: Task 20- 26)	TASK 21 Revised Scope Development			
	A. Submittal	08/01/86	08/05/86	
	B. Review Complete	08/15/86	08/13/86	08/13/86
	TASK 22 Work Plan Revisions	03/27/87	5/06/87	5/04/87
	A. Geophysical Surveys			
	1. E.M. Conductivity			
	a. field work	10/02/85		
	b. evaluate data			
	2. Magnetometry			
	a. field work	10/15/85		
	b. evaluate data			
	3. Seismic Refraction			
	a. field work	10/30/85		
	b. evaluate data			
	B. SOILS INVESTIGATION			
	1. Soil Gas Testing			
	a. field work	10/21/86	10/21/86	
	b. evaluate data	11/21/86		
	2. Surface Soil Sampling			
	a. field work	11/10/86	11/10/86	
	b. evaluate data	12/10/86		

<u>Remedial Investigation</u>		Proposed	Actual	Final
<u>Task No.</u>	<u>Description</u>	<u>Schedule</u>	<u>Schedule</u>	<u>Approval</u>
	3. Subsurface Soil Sampling			
	a. field work	11/17/86	11/17/86	
	b. evaluate data	12/17/86		
	C. WATER INVESTIGATION			
	1. Surface Water/Sediment Sampling			
	a. field work	11/05/86	12/05/86	
	b. evaluate data	12/05/86	08/15/87	
	2. Ground Water Sampling			
	a. field work	03/02/87	03/02/87	
	b. evaluate data	04/21/87	08/15/87	
	TASK 23 Water Supply Search			
	A. Residential Well Sampling			
	1. Field Work	05/30/87		
	2. Evaluate Data	05/30/87		
	TASK 24 Air Monitoring			
	A. Phase I			
	1. Field Work	04/30/87	7/23/87	
	2. Evaluate Data	05/30/87	<del>7/23/87</del>	
	B. Phase II (If Applicable)			
	1. Field Work			
	2. Evaluate Data			
	TASK 25 Additional Investigations	05/30/87	7/23/87	
VIII TASK 8	PRELIMINARY REMEDIAL TECHNOLOGIES			
	A. Draft			
	1. Submittal	10/15/86	10/13/86	
	2. Review Completed	10/29/86	10/30/86	10/30/86
	B. Final			
	1. Submittal	10/15/86	10/13/86	
	2. Review Completed	10/29/86	10/30/86	10/30/86
IX TASK 9	SITE INVESTIGATION ANALYSIS			
(Suspended	TASK 26 Final Report-HRS/RI			
Re: Task 26,27)				
	A. Draft			
	1. Submittal	09/11/87		
	2. Review Completed	09/30/87		
	B. Final			
	1. Submittal	10/30/87		
	2. Review Completed	11/30/87		

<u>Remedial Investigation</u>		Proposed	Actual	Final
Task No.	Description	Schedule	Schedule	Approval

X TASK 10 REMEDIAL INVESTIGATION REPORT  
 (Suspended TASK 11 Additional Requirements  
 Re: Task 11)

10/15/86

A. Project Reporting

Monthly

B. Review Meeting

9/29/87

C. Community Relations

FEASIBILITY STUDY

(PLACED ON HOLD - FUNDS & SCHEDULE MAY BE  
MORE HELPFUL TO HRS)

Task No.	Description	Proposed Schedule	Actual Schedule	Final Approval
I	TASK 12 Describe Proposed Response			
	A. Submittal	09/11/87		
	B. Review Completed			
II	TASK 13 Preliminary Remedial Technologies			
III	TASK 14 Development of Alternatives			
	A. Submittal	10/19/87		
	B. Review Complete			
IV	TASK 15 Initial Screening of Alternatives			
	A. Deliverable for DRAR Evaluation			
	1. Submittal	10/29/87		
	2. Review Complete			
	B. Bench Scale - Lab Studies			
	1. Submittal	11/20/87		
	2. Review Complete			
V	TASK 16 Detailed Evaluation of Alternatives			
	A. Submittal	12/14/87		
	B. Review Complete			
	TASK 17 Final Report-FS			
	A. Draft			
	1. Submittal	01/29/88		
	2. Review Complete			
	3. Public Meeting & Comment			
	B. Final			
	1. Submittal	03/15/88		
	2. Review Complete			

JL:11h:sp2060g/1-5

L1630200005 -- St. Clair County

SAUGET-SAUGET SITES COST UPDATE

Federal FY87 Quarter 2

State FY87 Quarter 3

<u>Remedial Investigation</u>		Original			
<u>Task No.</u>	<u>Description</u>	<u>Proposed</u>	<u>Actual</u>	<u>% of</u>	<u>±Cost</u>
		<u>Cost</u>	<u>Cost</u>	<u>Budget</u>	
I TASK 1	MEETINGS	4,492	5,211	116%	•(719)
II TASK 2	WORK PLAN	14,549	42,922	295%	(29,092)
	A. Investigative Support				
	B. Definition of Objectives & SOW				
	C. Site Sampling Plan (SSP)				
	D. Health & Safety Plan (HSP)				
	E. Quality Assurance Project Plan (QAPP)				
	1. Air Monitoring Supplemental QAPP				
	2. Fish Flesh Supplemental QAPP				
	F. Community Relations Plan (CRP)				
	G. Permitting Requirements Plan				
III TASK 3	ASSOCIATED SUPPORT	10,576	10,576	100%	0
IV TASK 4	ADDITIONAL DATA GATHERING- EXISTING DATA REVIEW & EVALUATION	13,323	15,189	114%	(1866)
V TASK 5	DESCRIPTION OF CURRENT SITUATION	3,863	28,202	730%	(24,339)
VI TASK 6	INTERIM PRELIMINARY REPORT	3,858	14,082	365%	(10,224)

<u>Remedial Investigation</u>		Original			
Task No.	Description	Proposed Cost	Actual Cost	% of Budget	±Cost
<u>PRIMARY REMEDIAL INVESTIGATION TASKS</u>					
VII TASK 7 (Suspended Re: Task 20-26)	SITE INVESTIGATION	118,063	118,063	100%	0
	TASK 20 Add. Req. New Scope	13,918	<del>17,816</del> 18,862	<del>12%</del> 128%	(444)
	TASK 21 Revised Scope Development	20,000	20,000	100%	0
	TASK 22 Work Plan Revisions	18,197	15,104	83%	3093
	A. Geophysical Surveys				
	1. E.M. Conductivity				
	2. Magnetometry				
	3. Seismic Refraction				
	B. SOILS INVESTIGATION				
	1. Soil Gas Testing				
	2. Surface Soil Sampling				
	3. Subsurface Soil Sampling				
	C. WATER INVESTIGATION				
	1. Surface Water/Sediment Sampling				
	2. Ground Water Sampling				
	TASK 23 Water Supply Search				
	A. Residential Well Sampling				
	TASK 24 Air Monitoring				
	A. Phase I	38,757	<del>10,852</del> 39,176	<del>28%</del> 101%	(419)
	B. Phase II (If Applicable)				
	TASK 25 Additional Investigations	<del>442,908</del> 444,893	<del>381,920</del> 380,901	86%	62,007
VIII TASK 8	PRELIMINARY REMEDIAL TECHNOLOGIES	3,979	5,253	132%	(1274)
IX TASK 9 (Suspended Re: Task 26, 27)	SITE INVESTIGATION ANALYSIS				
	TASK 26 Final Report-RI	81,166	<del>24,550</del> 29,331	<del>30%</del> 36%	51,835



Remedial Investigation		Original			
Task No.	Description	Proposed Cost	Actual Cost	% of Budget	±Cost
<u>PRIMARY REMEDIAL INVESTIGATION TASKS</u>					
	TASK 27 Analytical Services		335,979		
	Remedial Investigation Report	341,376	<del>262,860</del>	<del>77%</del> 99%	539
X TASK 10	<b>TASK 28 Waste Disposal</b>	9220.	461	5%	8759
(Suspended	TASK 11 Additional Requirements	7,186	7,330	102%	(144)
Re: Task 11)	A. Project Reporting				
	B. Review Meeting				
	C. Community Relations				
TOTAL	<b>REMEDIAL INV.</b>	<del>1,137,396</del>	979,730	<del>116.09%</del>	
		1,145,431	* 1,086,642	-	58,789

\* EXPENDITURES INCLUDING FEES

FEASIBILITY STUDY

(PLACED ON HOLD, FUNDS may be more useful  
to completing a thorough HRS.)

Task No.	Description	Proposed Cost	Actual Cost	% of Budget	±Cost
I	TASK 12 Describe Proposed Response				
II	TASK 13 Preliminary Remedial Technologies				
III	TASK 14 Development of Alternatives				
IV	TASK 15 Initial Screening of Alternatives				
	A. Deliverable for DRAR Evaluation				
	B. Bench Scale - Lab Studies				
V	TASK 16 Detailed Evaluation of Alternatives				
	TASK 17 Final Report-FS				
	Total		174,493		
			<del>102,528</del>		
	Total Project		\$1,319,924		

JL:11h:sp2062g/1-4

cc: Jeff Larson  
John Steller  
Terry Ayers  
Division File